

U.S. National Stage of PCT/EP2004/004579

List of Current Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1 - 11 (Cancelled).

12. (New) An energy supply unit for a measuring device for determining and/or monitoring a physical or chemical, process variable of a medium, comprising:

at least one voltage limiting unit; and/or

at least one current limiting unit wherein:

said at least one voltage limiting unit is embodied in such a manner that arising voltages remain below a value that leads to an explosion in an explosion-endangered area, and/or

said at least one current limiting unit is embodied in such a manner that arising currents and/or heatings associated therewith remain below a value that leads to an explosion in an explosion-endangered area.

13. (New) The energy supply unit as claimed in claim 12, further comprising:

at least one energy source in the energy supply unit.

14. (New) The energy supply unit as claimed in claim 13, wherein:

said energy source is at least one battery and/or at least one fuel cell.

15. (New) The energy supply unit as claimed in claim 13, further comprising:

at least one capsule unit provided in the energy supply unit, in which said energy source is located.

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16. (New) The energy supply unit as claimed in claim 15, further comprising:
at least one voltage limiting unit and/or at least one current limiting unit are/is provided in said capsule unit.
17. (New) The energy supply unit as claimed in claim 12, wherein:
said at least one voltage limiting unit is at least one drop resistance.
18. (New) The energy supply unit as claimed in claim 12, wherein:
said at least one current limiting unit is a plurality of drop resistances.
19. (New) The energy supply unit as claimed in claim 12, further comprising:
at least one switch-on unit, which activates the energy supplying of the energy measuring device by said at least one energy supply unit.
20. (New) The energy supply unit as claimed in claim 12, further comprising:
at least one time limiting unit, which turns off the energy supply of the energy measuring device by said at least one energy supply unit after an adjustable time span.
21. (New) The energy supply unit as claimed in claim 13, further comprising:
at least one checking unit, which checks said at least one energy source regarding its energy content.
22. (New) The energy supply unit as claimed in claim 12, wherein:
said at least one energy supply unit is a modular unit.